What is claimed is:

- 1. A method for delivering a communications service
- 2 feature to a party communicating through a network,
- 3 comprising the steps of:
- 4 determining if the party is a subscriber of the
- 5 communications service feature based on an identifier
- 6 associated with the party and a first database containing a
- 7 subset of subscriber identifiers;
- 8 verifying that the identifier associated with the party
- 9 is in the subset of identifiers that would be included in
- 10 said first database if the party is a subscriber;
- for those identifiers that are not in said first
- 12 database and that are not in the subset of identifiers that
- 13 would be included in said first database, querying a second
- 14 database containing all subscriber identifiers to determine
- 15 if the party is a subscriber; and
- 16 providing the communications service feature if the
- 17 party is a subscriber.
- 1 2. The method of claim 1, wherein said network is the
- 2 public switched telephone network.
- 1 3. The method of claim 2, wherein the identifiers are
- 2 telephone numbers.
- 1 4. The method of claim 3, wherein said communications

- 2 service feature is Positive Call Processing.
- 1 5. The method of claim 3, wherein said first database
- 2 contains subscriber telephone numbers for a number of area
- 3 codes, and the subset of telephone numbers that would be
- 4 included in said first database if the party is a subscriber
- 5 are subscriber telephone numbers having one of said number of
- 6 area codes.
- 1 6. The method of claim 5, wherein the telephone numbers
- 2 that are not in said first database and that do not have one
- 3 of said number of area codes represent calls that are not
- 4 associated with a particular geographic area.
- 1 7. The method of claim 3, wherein said step of
- 2 determining is performed using an automatic number
- 3 identification trigger table in a communications switch.
- 1 8. The method of claim 5, wherein said step of
- 2 verifying is performed using an access number plan area table
- 3 in a communications switch.
- 9. The method of claim 4, wherein said communications
- 2 service feature is provided by a provider and further
- 3 comprising the step of:
- 4 verifying that the provider controls information for
- 5 billing the party and wherein said step of providing positive

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- 6 call processing is only performed if the party is a
- 7 subscriber and the provider controls information for billing
- 8 the party.
- 1 10. The method of claim 9, wherein said step of
- 2 verifying that the provider controls information for billing
- 3 the party is based on a transaction capabilities part begin
- 4 message from a No. 4 electronic switching system switch.
- 1 11. The method of claim 6, further comprising the step
- 2 of:
- determining if a wireless telephone number for which the
- 4 communications service feature can be provided is associated
- 5 with the party and wherein said step of providing the
- 6 communication service feature is only performed if a wireless
- 7 telephone number for which the communications service feature
- 8 can be provided is associated with the party and the party is
- 9 a subscriber.
- 1 12. The method of claim 11, wherein the determination
- 2 is based on an information indicator/originating line
- 3 information code indicating type 2A access.
- 1 13. An apparatus delivering a communications service
- 2 feature to a party communicating through a network,
- 3 comprising:
- 4 means for determining if the party is a subscriber of

- 5 the communications service feature based on an identifier
- 6 associated with the party and a first database containing a
- 7 subset of subscriber identifiers;
- 8 means for verifying that the identifier associated with
- 9 the party is in the subset of identifiers that would be
- 10 included in said first database if the party is a subscriber;
- means for querying a second database containing all
- 12 subscriber identifiers to determine if the party is a
- 13 subscriber for those identifiers that are not in said first
- 14 database and that are not in the subset of identifiers that
- 15 would be included in said first database; and
- means for providing the communications service feature
- 17 if the party is a subscriber.
- 1 14. The apparatus of claim 13, wherein said network is
- 2 the public switched telephone network.
- 1 15. The apparatus of claim 14, wherein the identifiers
- 2 are telephone numbers.
- 1 16. The apparatus of claim 15, wherein said
- 2 communications service feature is Positive Call Processing.
- 1 17. The apparatus of claim 15, wherein said first
- 2 database contains subscriber telephone numbers for a number
- 3 of area codes, and the subset of telephone numbers that would
- 4 be included in said first database if the party is a

- 1 subscriber are telephone numbers having one of said number of
- 2 area codes.
- 1 18. The apparatus of claim 17, wherein the telephone
- 2 numbers that are not in said first database and that do not
- 3 have one of said number of area codes represent wireless
- 4 calls.
- 1 19. The apparatus of claim 15, wherein said means for
- 2 determining uses an automatic number identification trigger
- 3 table in a communications switch.
- 1 20. The apparatus of claim 17, wherein said means for
- 2 verifying uses an access number plan area table in a
- 3 communications switch.
- 1 21. The apparatus of claim 16, wherein said
- 2 communications service feature is provided by a provider and
- 3 further comprising:
- 4 means for verifying that the provider controls
- 5 information for billing the party and wherein said means for
- 6 providing only provides Positive Call Processing if the party
- 7 is a subscriber and the provider controls information for
- 8 billing the party.
- 1 22. The apparatus of claim 21, wherein said means for
- 2 verifying that the provider controls information for billing

- 3 the party is based on a transaction capabilities part begin
- 4 message from a communications switch.
- 1 23. The apparatus of claim 18, further comprising:
- means for determining that a wireless telephone number
- 3 for which the communications service feature can be provided
- 4 is associated with the party and wherein said means for
- 5 providing only provides the communications service feature if
- 6 a wireless telephone number for which the communications
- 7 service feature can be provided is associated with the party
- 8 and the party is a subscriber.
- 1 24. The apparatus of claim 23, wherein the
- 2 determination is based on an information
- 3 indicator/originating line information code indicating type
- 4 2A access.
- 1 25. A system for determining if a party communicating
- 2 through the public switched telephone network is a subscriber
- 3 of a communications service feature, comprising:
- a communications switch serving a number of area codes,
- 5 comprising:
- an area code database containing each of said
- 7 number of area codes, and
- 8 a first database containing the subset of
- 9 subscriber telephone numbers having an area code equal to one
- 10 of said number of area codes;

- a second database containing all subscriber telephone
- 12 numbers; and
- a processor in communication with said communications
- 14 switch and said second database, wherein said processor
- 15 queries said second database to determine if the party is a
- 16 subscriber when a telephone number associated with the party
- 17 is not in said first database and an area code associated
- 18 with said party in not in said area code database.
 - 26. The system of claim 25, wherein said communications service feature is Positive Call Processing.
 - 1 27. The system of claim 26, wherein said first database
 - 2 is an automatic number identification trigger table.
- 1 28. The system of claim 27, wherein said area code
- 2 database is an access number plan area table.
- 1 29. The system of claim 27, wherein said communications
- 2 service feature is provided by a provider and said processor
- 3 verifies that the provider controls information for billing
- 4 the party.
- 1 30. The system of claim 29, wherein said processor
- 2 determines if a wireless telephone number for which the
- 3 communications service feature can be provided is associated
- 4 with the party.

- 1 31. The system of claim 30, wherein the determination
- 2 is based on an information indicator/originating line
- 3 information code indicating type 2A access.
- 1 32. A computer readable medium having stored thereon
- 2 instructions which, when executed by a processor, cause the
- 3 processor to perform steps for delivering a communications
- 4 service feature to a party communicating through a network,
- 5 said steps comprising:
- determining if the party is a subscriber of the
- 7 communications service feature based on a telephone number
- 8 associated with the party and a first database containing a
- 9 subset of subscriber telephone numbers;
- verifying that the telephone number associated with the
- 11 party is in the subset of telephone numbers that would be
- 12 included in said first database if the party is a subscriber;
- for those telephone numbers that are not in said first
- 14 database and that are not in the subset of telephone numbers
- 15 that would be included in said first database, querying a
- 16 second database containing all subscriber telephone numbers
- 17 to determine if the party is a subscriber; and
- 18 providing the communications service feature if the
- 19 party is a subscriber.
- 1 33. A method for delivering a communications service
- 2 feature to a party communicating through a network,

- 3 comprising the steps of:
- 4 determining if the party is a subscriber of the
- 5 communications service feature based on a telephone number
- 6 associated with the party and a first database containing a
- 7 subset of subscriber telephone numbers based on the area
- 8 codes associated with said subscriber telephone numbers;
- 9 verifying that the telephone number associated with the
- 10 party has an area code such that the telephone number would
- 11 be included in said first database if the party is a
- 12 subscriber;
- for those telephone numbers that represent calls not
- 14 associated with a particular geographic region, as indicated
- 15 by a telephone number not being in said first database and
- 16 not being in the subset of telephone numbers that would be
- 17 included in said first database, querying a second database
- 18 containing all subscriber telephone numbers to determine if
- 19 the party is a subscriber; and
- 20 providing the communications service feature if the
- 21 party is a subscriber.
- 1 34. The method of claim 33, wherein said network is the
- 2 public switched telephone network.
- 1 35. The method of claim 34, wherein said communications
- 2 service feature is Positive Call Processing.
- 1 36. An apparatus for delivering a communications

- 2 service feature to a party communicating through a network,
- 3 comprising:
- 4 means for determining if the party is a subscriber of
- 5 the communications service feature based on a telephone
- 6 number associated with the party and a first database
- 7 containing a subset of subscriber telephone numbers based on
- 8 the area codes associated with said subscriber telephone
- 9 numbers;
- means for verifying that the telephone number associated
- 11 with the party has an area code such that the telephone
- 12 number would be included in said first database if the party
- 13 is a subscriber;
- 14 for those telephone numbers that represent calls not
- 15 associated with a particular geographic region, as indicated
- 16 by a telephone number not being in said first database and
- 17 not being in the subset of telephone numbers that would be
- 18 included in said first database, means for querying a second
- 19 database containing all subscriber telephone numbers to
- 20 determine if the party is a subscriber; and
- 21 means for providing the communications service feature
- 22 if the party is a subscriber.
- 1 37. The apparatus of claim 36, wherein said network is
- 2 the public switched telephone network.
- 1 38. The apparatus of claim 37, wherein said
- 2 communications service feature is Positive Call Processing.